

# Receiving Report

Date: 12/14/27  
 Supplier: ne north

Batch No: n/23892  
 Dart P/O: 18487

Packing Slip: Yes ☒ No ☐  
 Invoice: Yes ☐ No ☒  
 Receipt: Cash ☐ Cr ☒

Release Note Attached: Yes ☒ No ☐ N/A ☐  
 Waybill Attached: Yes ☐ No ☒ N/A ☐  
 Shipment Complete: Yes ☒ No ☐ N/A ☐  
 QC6 Inspection ☒ N/A ☐  
 Work Order ☐ N/A ☒

## Discrepancies

Part Number	Description	Quantity Ordered	Quantity Received	Quantity Returned	Quantity Short	Comments

Initials of receiver (if shipment OK)

Level 12 [Signature]

Production/Admin: [Signature]  
 Date: 12/14/28  
 Received/Costing [Signature]  
 Initial [Signature]

Location \_\_\_\_\_

# Purchase Order Receipt Listing

Tuesday, November 27, 2012 2:47:52 PM

All amounts are calculated in domestic currency.

All Vendors PO ID PO18487 Receipt Dates from 11/27/2012 to 11/27/2012 All Line Item Types  
All Item ID/GL/WOs All Rec. Employees All Currencies  
Grouped by Vendor ID

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID	Reference/ Description/ Cert Std	PO U/M / Stock U/M	Required Date Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
Vendor ID \ Vendor Name VU-MCM001 McMaster-Carr Supply Co,											
PO18487	1		92311A599	Each	11/27/2012 11/27/2012		1,000.0000	\$0.20	0.0000	0	\$201.20
USD	No		SET SCREW	Each	1,000.0000 DES102			\$201.20	0.0000	0	
			93686/123842								
	2		71500-30	Each	11/27/2012 11/27/2012		1.0000	\$30.09	0.0000	0	\$30.09
	No		3089A11 ROUND SHANK		1.0000 DES102			\$30.09	0.0000	0	
			123842								
	3		M301S18GA	sf	11/27/2012 11/27/2012		3.0000	\$24.17	0.0000	0	\$72.50
	No		301 SS Sheet - 1/4 hard	sf	3.0000 DES102			\$72.50	0.0000	0	
			123842								
	4		M301S20GA	sf	11/27/2012 11/27/2012		3.0000	\$21.11	0.0000	0	\$63.34
	No		301 SS Sheet - 1/4 hard	sf	3.0000 DES102			\$63.34	0.0000	0	
			123842								
										Total Received Quantity:	1,007.0000
										Total Qty to Inspect (PO U/M):	0.0000
										Total Reject Quantity:	0.0000
										Total Receipt Value:	\$367.13
										Total Balance Due Quantity:	0.0000



# McMASTER-CARR®

Purchase Order  
PO18487

Page 1 of 2

200 Aurora Industrial Pkwy  
Aurora OH 44202-8087  
330-995-5500  
cle.sales@mcmaster.com

Dart Aerospace Ltd  
1270 Aberdeen St  
Hawkesbury ON K6A 1K7  
Canada  
Attention: J-Luc

Order Placed By  
**Chantal Lavoie**

11/26/2012

McMaster-Carr Number  
**4292498-01**

**A83**

Line	Description	Ordered	Shipped
1	<b>92311A599</b> 18-8 Stainless Steel Cup Point Set Screw, 5/16"-24 Thread, 5/8" Long, Packs of 50  Unit Price: \$10.06 Extended Price: \$201.20	20 Packs	20
2	<b>3089A11</b> Round Shank Reamer for Structural Steel, 1/4" Reamer Diameter, 1/4" Shank Diameter, 4-3/8" L Overall  Unit Price: \$30.09 Extended Price: \$30.09	1 Each	1
3	<b>1217T27</b> Wear-Resistant Stainless Steel (Type 301), .048" Thick, 12" X 36", 1/4 Hard  Unit Price: \$72.50 Extended Price: \$72.50	1 Each	1
4	<b>1217T24</b> Wear-Resistant Stainless Steel (Type 301), .042" Thick, 12" X 36", 1/4 Hard  Unit Price: \$63.34 Extended Price: \$63.34	1 Each	1

2 - 696 - 09 45 - 83 A599 20 PK 1

2 - 499 2

8 - 53 3

8 - 96 4

*Luc 11/26/12*

Dart Aerospace Ltd

**EXP  
INV**



23 lbs  
4 lines

**Lg**

38x12x12

FW1WBP24  
11/26/2012  
12:36:07:42  
570  
Cycle 11

1140568842695



200 Aurora Industrial Pkwy  
Aurora OH 44202-8087  
330-995-5500  
cle.sales@mcmaster.com

Dart Aerospace Ltd  
1270 Aberdeen St  
Hawkesbury ON K6A 1K7  
Canada  
Attention: J-Luc

Order Placed By  
Chantal Lavoie

11/26/2012

McMaster-Carr Number  
4292498-01

Charges for this shipment


Merchandise Amount	\$367.13
<b>Total:</b>	<b>\$367.13</b>

0.4  
for  
3.1

0.4  
for  
3.1

# Stainless Steel

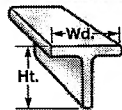
For information about stainless steel, see page 3685.

 For information on the chemical composition of stainless steel alloys, as well as physical and mechanical properties, go to mcmaster.com and search for 8984KAC.

## Multipurpose Stainless Steel (Type 304) (Material continued from previous page)

The most widely used stainless steel, Type 304 has good weldability and formability and maintains corrosion resistance up to 1500° F (except for balls, which are not rated for temperature). Commonly used in chemical and food processing equipment. It may become slightly magnetic when worked and is not heat treatable.

### T-Bars—Unpolished (Mill) Finish



- Hardness: 156 Brinell
- Yield Strength: 30,000 psi
- Annealed

Meet ASTM A276 and A479. T-bars are hot rolled. Edges are rounded. Height and width tolerances are  $\pm 0.141"$ , except  $1" \times 1"$  and  $1\frac{1}{2}" \times 1\frac{1}{2}"$  sizes are  $\pm 0.078"$ . Flatness tolerance is  $\pm 1"$  for 1-ft. lengths,  $\pm 3"$  for 3-ft. lengths, and  $\pm 6"$  for 6-ft. lengths. **To Order:** Please specify 1-, 3-, or 6-ft. length.

Ht. x Wd.	1 ft.	3 ft.	6 ft.	Ht. x Wd.	1 ft.	3 ft.	6 ft.	Ht. x Wd.	1 ft.	3 ft.	6 ft.
$\frac{1}{8}"$ Thick ( $\pm 0.015"$ )				$\frac{1}{4}"$ Thick ( $\pm 0.023"$ )				$\frac{3}{8}"$ Thick ( $\pm 0.023"$ )			
$1" \times 1"$ .....1352T11..	\$17.52	\$43.91	\$73.30	$2" \times 2"$ .....1352T13	\$50.30	\$126.08	\$210.48	$4" \times 4"$ .....1352T16..	\$127.80	\$320.30	\$534.72
$\frac{3}{16}"$ Thick ( $\pm 0.015"$ )				$2\frac{1}{2}" \times 2\frac{1}{2}"$ 1352T14	61.51	154.17	257.38				
$1\frac{1}{2}" \times 1\frac{1}{2}"$ .....1352T12..	31.48	78.90	131.72	$3" \times 3"$ .....1352T15	72.42	181.50	303.00				

### Half Rounds—Unpolished (Mill) Finish



- Hardness: Rockwell B80
- Yield Strength: 45,000 psi
- Annealed

Meet ASTM A276 and A479 and AMS5639. Half rounds are cold finished. Diameter tolerance is  $\pm 0.002"$ . Straightness tolerance is not rated. Length tolerance is  $\pm 1"$  for 1-ft. lengths,  $\pm 3"$  for 3-ft. lengths, and  $\pm 6"$  for 6-ft. lengths. **To Order:** Please specify 1-, 3-, or 6-ft. length.

Dia.	1 ft.	3 ft.	6 ft.	Dia.	1 ft.	3 ft.	6 ft.	Dia.	1 ft.	3 ft.	6 ft.
$\frac{1}{2}"$ .....1267T56....	\$10.35	\$18.87	\$31.45	$\frac{5}{8}"$ .....1267T57....	\$12.95	\$26.62	\$44.36	$\frac{3}{4}"$ .....1267T58....	\$16.63	\$36.56	\$60.93

### Precision Balls—Reflective Finish



- Hardness: 253-362 Brinell
- Yield Strength: 32,000 psi
- Work hardened

Meet ASTM A493. Made of Type 302 stainless steel. Grade is 100. Sphericity is 0.0001". Diameter tolerance is  $\pm 0.0005"$ .

Dia.	Pkg. Qty.	Pkg.	Dia.	Pkg. Qty.	Pkg.	Dia.	Pkg. Qty.	Pkg.	Dia.	Pkg. Qty.	Pkg.				
1/16"	100	9291K12	\$5.00	7/32"	100	9291K21	\$8.21	11/32"	25	9291K28	\$8.66	5/8"	5	9291K36	\$7.65
3/32"	100	9291K13	5.25	1/4"	100	9291K23	8.38	3/8"	25	9291K31	10.60	3/4"	5	9291K38	10.28
1/8"	100	9291K14	5.36	9/32"	100	9291K24	13.25	7/16"	25	9291K33	11.62				Each
5/32"	100	9291K16	5.52	5/16"	50	9291K27	9.24	1/2"	15	9291K35	10.83	1"		9291K39	\$10.99
3/16"	100	9291K18	7.05												

## Wear-Resistant Multipurpose Stainless Steel (Type 301)

Commonly used for fasteners and springs, this chromium-nickel (austenitic) stainless steel offers better wear resistance and fatigue strength than Type 304. It also has good weldability and maintains corrosion resistance up to 1550° F. May be slightly magnetic. Not heat treatable.

### Sheets—Unpolished (Mill) Finish



- Hardness:  $\frac{1}{4}$  Hard, Rockwell C25;  $\frac{1}{2}$  Hard, Rockwell C32; Full Hard, Rockwell C41
- Yield Strength:  $\frac{1}{4}$  Hard, 75,000 psi;  $\frac{1}{2}$  Hard, 110,000 psi; Full Hard, 140,000 psi

Meet ASTM A240 and MIL-S-5059. Sheets are cold finished. Width and length tolerances are  $\pm \frac{1}{32}"$ . Flatness tolerance is not rated.

Use  $\frac{1}{4}$  hard sheets for light drawing, stretching, and forming operations where heat and corrosion resistance are needed. Sheets also meet AMS5517. Use  $\frac{1}{2}$  hard when forming applications require greater hardness and yield strength. Sheets also meet AMS5518. Full hard sheets are cold worked to the ideal mechanical properties desired for springs. Sheets also meet AMS5519.

Thick.	Thick. Tolerance	<sup>1</sup> / <sub>4</sub> HARD		<sup>1</sup> / <sub>2</sub> HARD		FULL HARD							
		12"×12"	12"×36"	12"×12"	12"×36"	12"×12"	12"×36"						
0.015"	±0.002"	1217T11	\$20.24	1217T21	\$49.40	1217T31	\$20.24	1217T41	\$49.40	1217T51	\$25.16	1217T61	\$52.04
0.024"	±0.003"	1217T12	23.95	1217T22	53.69	1217T32	23.95	1217T42	53.69	1217T52	27.66	1217T62	57.12
0.029"	±0.004"	1217T13	29.56	1217T23	60.37	1217T33	29.56	1217T43	60.37	1217T53	27.36	1217T63	65.84
0.042"	±0.004"	1217T14	29.18	1217T24	68.12	1217T34	29.18	1217T44	68.12	1217T54	30.45	1217T64	72.37
0.048"	±0.004"	1217T17	32.13	1217T27	77.94	1217T37	32.13	1217T47	77.94	1217T57	34.83	1217T67	82.94
0.059"	±0.005"	1217T15	31.51	1217T25	94.18	1217T35	31.51	1217T45	94.18	1217T55	49.66	1217T65	102.35
0.075"	±0.005"	1217T16	36.91	1217T26	109.97	1217T36	36.91	1217T46	109.97				

### Spring-Tempered Strips—Unpolished (#2B Mill) Finish



- Hardness: Rockwell C42
- Yield Strength: 147,000 psi
- Spring tempered

Meet ASTM A666. Strips are cold finished. Width tolerance is  $\pm 0.005"$  for  $\frac{1}{8}"$  to  $4"$  widths;  $\pm 0.010"$  for  $6"$  to  $12"$  widths. Flatness tolerance is not rated. Length tolerance is  $\pm 1"$ .

Wd.	Lg., ft.	Mini Coils	Coils	Wd.	Lg., ft.	Mini Coils	Coils
$0.002"$ Thick ( $\pm 0.0002"$ )				$0.005"$ Thick ( $\pm 0.0003"$ )			
$\frac{3}{4}"$ .....10.....2416K3..	\$42.04	75.....90415K101..	\$134.86	$\frac{1}{8}"$ .....10.....2416K23..	\$48.18	100.....90415K808..	\$123.37
$1"$ .....5.....2416K12..	42.04	25.....90415K801..	118.54	$\frac{1}{4}"$ .....10.....2416K24..	46.82	100.....90415K809..	124.31
$2"$ .....5.....2416K13..	42.04	25.....90415K803..	134.86	$\frac{1}{2}"$ .....10.....2416K25..	41.40	100.....90415K811..	121.00
$0.003"$ Thick ( $\pm 0.0003"$ )				$1"$ .....5.....2416K26..	39.06	50.....90415K134..	134.86
$\frac{1}{2}"$ .....10.....2416K15..	43.46	100.....90415K803..	121.74	$2"$ .....5.....2416K27..	39.06	50.....90415K812..	142.74
$2"$ .....5.....2416K16..	43.46	50.....90415K804..	142.57	$0.006"$ Thick ( $\pm 0.0004"$ )			
$0.004"$ Thick ( $\pm 0.0003"$ )				$\frac{1}{2}"$ .....10.....2416K29..	39.04	100.....90415K814..	114.43
$\frac{1}{2}"$ .....10.....2416K18..	42.12	100.....90415K806..	128.89	$\frac{3}{4}"$ .....5.....2416K32..	39.04	75.....90415K816..	125.69
$1"$ .....5.....2416K19..	42.12	50.....90415K122..	134.86	$1"$ .....5.....2416K33..	39.04	75.....90415K145..	134.86
$2"$ .....5.....2416K21..	42.12	50.....90415K807..	142.11	$2"$ .....5.....2416K34..	39.04	50.....90415K817..	146.74
$4"$ .....5.....2416K22..	42.12	25.....90415K124..	134.86	$6"$ .....		10.....90415K818..	113.37
				$12"$ .....		10.....90415K822..	135.00

(Material continued on following page)

**Warning!** Hardness and yield strength are not guaranteed and are intended only as a basis for comparison.



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

**PURCHASE ORDER**

**Purchase Order ID PO18487**

**Purchase Order Date** 11/23/12  
**PO Print Date** 11/23/12

**Page Number** 1 of 2

**Order From :** MCMaster-CARR SUPPLY CO,  
P.O. BOX 7690  
CHICAGO, IL 60680-7690  
US

**VU-MCM001**

<b>Contact Name</b>		<b>Buyer</b>	Chantal Lavoie
<b>Vendor Phone</b>	330 995 5500	<b>Requisition Nbr</b>	
<b>Vendor Fax</b>	330 995 9600	<b>Tax Resale Nbr</b>	10127-2607
<b>Vendor Account Nbr</b>		<b>Terms</b>	Net 10
		<b>Currency</b>	USD
		<b>FOB</b>	Destination-Collect

**Ship To :** DART AEROSPACE LTD 1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

*REVISED*

*M123842*

Line Nbr	Reference Revision ID Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	Req Qty/ Unit of Measure	Ship Method	Unit Price	Extended Price
1	92311A599	SET SCREW	11/27/12 Yes	✓ 1,000.00 Each	FedEx PI collect	\$0.2012	\$201.20
			<b>Special Inst:</b> AS PER DWG D2712 REV. B B93686				
2		3089A11 ROUND SHANK	11/27/12 Yes	✓ 1.00 Each	FedEx PI collect	\$30.0900	\$30.09
3	M301S18GA <i>44</i>	301 SS Sheet - 1/4 hard	11/27/12 Yes	✓ 3.00 sf	FedEx PI collect	\$24.1667	\$72.50

**Deliver To:** J-LUC

*12/14/12*

*48 42*

<b>Change Nbr:</b> 3	<b>Change Date:</b> 11/23/12	No substitution or deviation without consent. Certificate of Conformity or Material Certification required <b>(YES)</b> NO
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<b>DART</b> aerospace	Dart Aerospace Ltd. 1270 Aberdeen Street Hawkesbury, ON K6A 1K7 Tel: 613 632 9577 Fax: 613 632 1053
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**PURCHASE ORDER**

**Purchase Order ID PO18487**

**Purchase Order Date 11/23/12**

**PO Print Date 11/23/12**

**Page Number 2 of 2**

**Order From :**  
MCMASTER-CARR SUPPLY CO,  
P.O. BOX 7690  
CHICAGO, IL 60680-7690  
US

VU-MCM001

<b>Contact Name</b>		<b>Buyer</b>	Chantal Lavoie
<b>Vendor Phone</b>	330 995 5500	<b>Requisition Nbr</b>	
<b>Vendor Fax</b>	330 995 9600	<b>Tax Resale Nbr</b>	10127-2607
<b>Vendor Account Nbr</b>		<b>Terms</b>	Net 10
		<b>Currency</b>	USD
		<b>FOB</b>	Destination-Collect

**Special Inst:** MATERIAL: AISI 301 SS SHEET  
MINIMUM 1/4 HARDNESS (NOT  
ANNEALED)  
2B FINISH AS PER AMS 5517 OR AMS  
5518 OR AMS 5902  
OR AMS 5519 OR ASTM A666 WITH  
MIN. FTU = 125 KSI  
& MIN FTY = 75 KSI  
MCMASTER P/N: 1217T27 X 1 PCS 12" X  
36"

4	M301S20GA	301 SS Sheet - 1/4 hard	11/27/12	3.00	FedEx PI collect	\$21.1133	\$63.34
			Yes	sf			

**Special Inst:** MATERIAL: AISI 301 SS SHEET  
MINIMUM 1/4 HARDNESS (NOT  
ANNEALED)  
2B FINISH AS PER AMS 5517 OR AMS  
5518 OR AMS 5902  
OR AMS 5519 OR ASTM A666 WITH  
MIN. FTU = 125 KSI  
& MIN FTY = 75 KSI  
MCMASTER P/N: 1217T24 X 1 PCS 12" X  
36"

**PO Total: \$367.13**

**Change Nbr: 3**

**Change Date: 11/23/12**

No substitution or deviation without  
consent.  
Certificate of Conformity or Material  
Certification required **YES** NO